

ER-2 #809 02/09/16

Aircraft: [ER-2 - AFRC #809](#) ([See full schedule](#))

Flight Number: 16-9039

Payload Configuration: AVIRIS-C; AirMSPI-1

Nav Data Collected: Yes

Total Flight Time: 2 hours

Comments: The objective for Flight 16-9039 was to fly over the methane leak in Porter Ranch, CA. The pilot flew six lines as planned. The pilot commented that the sky was "spotlessly clear". Ground speed for the lines was typically 140 kts; altitude was at 29,000 ft. The pilot noted some roll in the autopilot which is typical flying at low altitude. The aircraft INS was acting-up starting with pre-flight checks – no GPS. Carl Sorenson sent an email early during the flight, that looking at his real-time housekeeping data, the LTN-2001 (the GPS receiver for the LTN-92) was not getting GPS, confirming what the pilot was seeing. The pilot therefore used his handheld Garmin and was able to hold the course line to plus or minus 0.1 deg. The AVIRIS-C rep confirmed that AVIRIS received good GPS data at the end of each run (line). The pilot was Williams.

Submitted by: Kevin Walsh on 02/09/16

Flight Segments:

From:	PMD	To:	PMD
Date:	02/09/16		
Flight Time:	2 hours		
Log Number:	162020	PI:	Robert Green
Funding Source:	Diane Wickland - NASA - SMD - ESD Terrestrial Ecology		
Purpose of Flight:	Science		

Flight Hour Summary:

	142019	152015	162020	172033
Flight Hours Approved in SOFRS	11	30		
Flight Hours Previously Approved		3.2	28.4	14.7
Total Used	7.8	4.8	13.7	0.5
Total Remaining				14.2

172033 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/06/17	17-9023	Check	0.5	0.5	14.2	

162020 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/30/15	16-9010	Check	1.9	1.9	26.5	
10/30/15	16-9012	Science	4.2	6.1	22.3	
01/12/16	16-9031	Science	3.2	9.3	19.1	
01/14/16	16-9035	Science	2.4	11.7	16.7	
02/09/16	16-9039	Science	2	13.7	14.7	

152015 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/07/14	15-6004	Science	3	3	30.2	
04/21/15	15-9034	Check	1.8	4.8	28.4	

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Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

142019 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/18/14 - 08/19/14	14-9038	Science	7.8	7.8	3.2	